

## WU-Blast2 Summary Table

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### Database Information

- [UniProt](#)
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SUBMISSION PARAMETERS			
Title	Sequence	Database	uniprot
Sequence length	450	Sequence type	p
Program	WU-blastp	Version	2.0MP-WashU [01-Jan-2006]
Matrix	BLOSUM62	Number of scores	100
Number of alignments	50	Expected threshold	10

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Alignment	DB-ID	Source	Length	Score	Identity%	Positives%	E0
1 <input checked="" type="checkbox"/>	UNIPROT:NHX7_ARATH	Sodium/hydrogen exchanger 7 (Na <sup>+</sup> /H <sup>+</sup> exchanger 7) (NHE-7) (Protein SALT OVERLY SENSITIVE 1).	1146	2249	100	100	3.4e-232
2 <input checked="" type="checkbox"/>	UNIPROT:NHX8_ARATH	Sodium/hydrogen exchanger 8 (Na <sup>+</sup> /H <sup>+</sup> exchanger 8) (NHE-8) (Protein SALT OVERLY SENSITIVE 1B).	756	1814	76	88	4.2e-186
3 <input checked="" type="checkbox"/>	UNIPROT:Q19N58_POPEU	Na <sup>+</sup> /H <sup>+</sup> antiporter.	1145	1680	75	86	6.7e-172
4 <input checked="" type="checkbox"/>	UNIPROT:Q1ESY8_9CARY	Putative Na <sup>+</sup> /H <sup>+</sup> antiporter.	1169	1668	73	85	1.3e-170
5 <input checked="" type="checkbox"/>	UNIPROT:Q4L224_WHEAT	Putative plasma membrane Na <sup>+</sup> /H <sup>+</sup> antiporter.	1142	1625	75	88	4.5e-166
6 <input checked="" type="checkbox"/>	UNIPROT:Q7XBF9_ORYSA	Putative Na <sup>+</sup> /H <sup>+</sup> antiporter.	1142	1625	75	87	4.5e-166
7 <input checked="" type="checkbox"/>	UNIPROT:Q0ILJ6_ORYSA	Os12g0641100 protein.	1142	1625	75	87	4.5e-166
8 <input checked="" type="checkbox"/>	UNIPROT:Q5ICN3_ORYSA	Na <sup>+</sup> /H <sup>+</sup> antiporter (Plasma membrane Na <sup>+</sup> /H <sup>+</sup> antiporter, putative, expressed).	1148	1625	75	87	4.5e-166
9 <input checked="" type="checkbox"/>	UNIPROT:Q8GUE7_9LILI	Putative Na/H antiporter.	1145	1608	70	83	2.9e-164

10	<input checked="" type="checkbox"/>	UNIPROT:Q4W3B5_SOLLC	Putative plasmalemma Na <sup>+</sup> /H <sup>+</sup> antiporter.	1151	1579	71	82	3.4e-161
11	<input checked="" type="checkbox"/>	UNIPROT:Q7XB48_PHYPA	Putative Na/H antiporter.	1153	1418	63	80	3.9e-144
12	<input checked="" type="checkbox"/>	UNIPROT:Q8D8X5_VIBVU	NhaP-type Na <sup>+</sup> /H <sup>+</sup> and K <sup>+</sup> /H <sup>+</sup> antiporters.	831	862	43	64	3.2e-85
13	<input checked="" type="checkbox"/>	UNIPROT:Q7MLJ8_VIBVY	NhaP-type Na <sup>+</sup> /H <sup>+</sup> and K <sup>+</sup> /H <sup>+</sup> antiporter.	831	861	43	64	4.1e-85
14	<input checked="" type="checkbox"/>	UNIPROT:Q1FSE1_9GAMM	Cyclic nucleotide-binding: Sodium/hydrogen exchanger.	812	809	43	62	1.3e-79
15	<input checked="" type="checkbox"/>	UNIPROT:Q23FX2_TETTH	Sodium/hydrogen exchanger family protein.	1071	476	39	56	3.9e-68
16	<input checked="" type="checkbox"/>	UNIPROT:Q4QB80_LEIMA	Na/H antiporter-like protein.	1500	660	38	57	1.5e-62
17	<input checked="" type="checkbox"/>	UNIPROT:Q22D73_TETTH	Sodium/hydrogen exchanger family protein.	1148	560	31	58	1.1e-57
18	<input checked="" type="checkbox"/>	UNIPROT:Q4D226_TRYCR	Na/H antiporter-like protein, putative.	1208	612	33	57	1.1e-57
19	<input checked="" type="checkbox"/>	UNIPROT:Q5XVN1_TOXGO	Putative sodium hydrogen exchanger.	823	594	35	56	8.1e-57
20	<input checked="" type="checkbox"/>	UNIPROT:Q5CLI6_CRYHO	Na <sup>+</sup> /H <sup>+</sup> antiporter.	926	585	34	56	2.9e-55
21	<input checked="" type="checkbox"/>	UNIPROT:Q7YY71_CRYPV	Na <sup>+</sup> /H <sup>+</sup> antiporter, possible (Possible Na <sup>+</sup> /H <sup>+</sup> and K <sup>+</sup> /H <sup>+</sup> antiporter with 12 transmembrane domains, duplicated adjacent gene).	927	585	34	56	2.9e-55
22	<input checked="" type="checkbox"/>	UNIPROT:Q5CLI5_CRYHO	Na <sup>+</sup> /H <sup>+</sup> antiporter.	871	562	35	55	6.5e-53
23	<input checked="" type="checkbox"/>	UNIPROT:Q7YY72_CRYPV	Na <sup>+</sup> /H <sup>+</sup> antiporter, possible (Possible Na <sup>+</sup> /H <sup>+</sup> and K <sup>+</sup> /H <sup>+</sup> antiporter with 12 transmembrane domains, duplicated adjacent gene).	871	562	35	55	6.5e-53
24	<input checked="" type="checkbox"/>	UNIPROT:Q0EW88_9PROI	Putative sodium/hydrogen exchanger family protein.	840	556	34	56	2.2e-52
25	<input checked="" type="checkbox"/>	UNIPROT:Q23XC6_TETTH	Sodium/hydrogen exchanger family protein.	1124	533	34	57	2.8e-49
26	<input checked="" type="checkbox"/>	UNIPROT:Q4UEZ0_THEAN	Sodium/hydrogen exchanger, putative.	925	529	29	54	3.9e-49
27	<input checked="" type="checkbox"/>	UNIPROT:Q6RYT4_TOXGO	Sodium/hydrogen exchanger 1.	2097	536	34	52	4.7e-49
28	<input checked="" type="checkbox"/>	UNIPROT:Q93HU4_APHHA	Na <sup>+</sup> /H <sup>+</sup> antiporter.	521	485	31	55	2.9e-45
29	<input checked="" type="checkbox"/>	UNIPROT:Q4C008_CROWT	Sodium/hydrogen exchanger.	521	477	31	54	2.0e-44
30	<input checked="" type="checkbox"/>	UNIPROT:P73863_SYNY3	Eukaryotic Na <sup>+</sup> /H <sup>+</sup> exchanger (Na <sup>+</sup> /H <sup>+</sup> antiporter).	527	477	32	55	2.0e-44
31	<input checked="" type="checkbox"/>	UNIPROT:Q2KTW7_BORA1	Putative sodium/hydrogen antiporter precursor.	863	477	30	53	1.3e-43
32	<input checked="" type="checkbox"/>	UNIPROT:Q47YN7_COLP3	Na <sup>+</sup> /H <sup>+</sup> antiporter NhaP.	399	468	32	52	1.8e-43
33	<input checked="" type="checkbox"/>	UNIPROT:Q4Y1L7_PLACH	Sodium/hydrogen exchanger, putative (Fragment).	1409	476	28	52	5.9e-43
34	<input checked="" type="checkbox"/>	UNIPROT:Q1D257_MYXXD	Na <sup>+</sup> /H <sup>+</sup> antiporter.	536	457	32	54	2.7e-42
35	<input checked="" type="checkbox"/>	UNIPROT:Q09AB6_STIAU	Na <sup>+</sup> /H <sup>+</sup> antiporter.	535	456	31	53	3.4e-42
36	<input checked="" type="checkbox"/>	UNIPROT:Q4Z7I5_PLABE	Sodium/hydrogen exchanger, putative (Fragment).	1504	468	29	53	4.8e-42

37	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q7RKH0_PLAYO</a>	Sodium/hydrogen exchanger family protein, putative.	1688	467	28	52	7.4e-42
38	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q8IET0_PLAF7</a>	Sodium/hydrogen exchanger, putative.	1920	465	30	54	1.5e-41
39	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q2FRC4_METHJ</a>	Sodium/hydrogen exchanger.	705	452	33	54	2.5e-41
40	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q7W305_BORPA</a>	Putative sodium/hydrogen exchanger family.	847	455	30	52	3.0e-41
41	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q7WE05_BORBR</a>	Putative sodium/hydrogen exchanger family.	847	455	30	52	3.0e-41
42	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q7VT11_BORPE</a>	Putative sodium/hydrogen exchanger family.	847	453	30	52	4.9e-41
43	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q3J0T2_RHOS4</a>	Putative Na <sup>+</sup> /H <sup>+</sup> antiporter with cyclic nucleotide-binding domain.	832	450	30	53	9.8e-41
44	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q6ANW7_DESPS</a>	Related to Na <sup>+</sup> /H <sup>+</sup> antiporter.	430	438	30	52	2.8e-40
45	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q31NS5_SYNPF</a>	Na <sup>+</sup> /H <sup>+</sup> antiporter precursor.	547	436	30	51	4.5e-40
46	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q5N5E1_SYNPF</a>	Na <sup>+</sup> /H <sup>+</sup> antiporter.	534	429	30	53	2.5e-39
47	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q162C3_ROSDO</a>	Sodium/hydrogen exchanger family, putative.	838	436	31	52	3.3e-39
48	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q8YNE6_ANASP</a>	Na <sup>+</sup> /H <sup>+</sup> -exchanging protein.	520	424	30	52	8.4e-39
49	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q5FUY2_GLUOX</a>	Putative Na <sup>+</sup> /H <sup>+</sup> Antiporter.	858	430	26	50	1.6e-38
50	<input checked="" type="checkbox"/>	<a href="#">UNIPROT:Q4CK89_TRYCR</a>	Na/H antiporter-like protein, putative (Fragment).	264	420	36	59	2.2e-38

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